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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete If Known

Application Number	60/633,632
Filing Date	Aug 27, 2006
First Named Inventor	Brown et al.
Art Unit	2124 2762
Examiner Name	Charis
Attorney Docket Number	ROYG-1-1001

U.S. PATENT DOCUMENTS					
Examiner Initials ¹	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	U28	US- 4,159,417	06/26/1979	Rubincam, David P.	
	U30	US- 4,418,381	11/29/1983	Molusie et al.	
	U31	US- 4,713,808	12/15/1987	Gaskill et al.	
	U32	US- 4,767,334	08/30/1988	Throne et al.	
	U33	US- 4,809,335	02/28/1989	Rumsey	
	U34	US- 4,840,602	01/20/1989	Rose	
	U35	US- 4,846,693	07/11/1989	Baer	
	U36	US- 4,855,725	08/08/1989	Fernandez	
	U37	US- 4,857,030	08/15/1989	Rose	
	U38	US- 4,887,986	12/19/1989	Gellerman	
	U39	US- 4,897,835	01/30/1990	Gaskill et al.	
	U40	US- 5,120,065	06/09/1992	Driscoll et al.	
	U41	US- 5,168,441	12/01/1992	Onatherm et al.	
	U42	US- 5,377,258	12/27/1994	Bro	
	U43	US- 5,392,207	02/21/1995	Wilson et al.	
	U44	US- 5,402,519	03/29/1995	Lavery	
	U45	US- 5,412,757	05/02/1995	Endo	
	U46	US- 5,450,079	09/12/1995	Dunaway	
	U47	US- 5,465,215	11/07/1995	Strickland et al.	
	U48	US- 5,493,281	02/20/1996	Owens	

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Examiner Initials ¹	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	F04	Japanese 59-228473	06/09/1983		T6
	F05	EP 0 275 826 A1	07/27/1986	CIBA-GEIGY AG	
	F06	EP 0 442 676 A2	08/21/1991	IBM	
	F07	GB 2,244,896 A	12/11/1991	AG (Patents) Ltd.	
	F08	WO 92/11731	07/09/1992	Eastman Kodak	
	F09	EP 0 281 427 B1	08/05/1992	Pierce et al.	
	F10	EP 508 912 A1	10/14/1992	Info Telecom	
	F11	WO 93/08654	04/29/1993	Forte Communications	
	F12	EP 0 583 908 A2	02/23/1994	IBM	
	F13	WO 95/07504	03/16/1995	Novo Nordisk A/S	

Examiner Signature	Charis G. C.	Date Considered	3-30-03

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet 4 of 7

Complete If Known

Application Number	09/633,633
Filing Date	August 7, 2000
First Named Inventor	Brown, et al.
Group Art Unit	2124 2762
Examiner Name	CH
Attorney Docket Number	ROYG-1-1001

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials ¹	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T2
CP	017	WRIGHT et al.; "Open Architecture Manufacturing: The Impact of Open-System Computers on Self-Sustaining Machinery and Machine Tool Industry"; 7 pages; pp. 1-7.	RECEIVED
CP	018	ALTINTAS et al.; "Design and Analysis of a Modular CNC System"; pub. 3/4/90; 8 pages; Elsevier Science Publishers; pp. 305-316.	SEP 18 2002
CP	019	ROBERT ANDERSON; "SMART: A Modular Architecture for Robotics and Teleoperation"; pub. 1993; IEEE; 6 pages; pp. 416-421.	Technology Center 2100
CP	020	MICROSOFT; "Object Linking and Embedding 2.0 Backgrounder"; pub. 9/93; 15 pages; pp. 1-15.	
CP	021	MICROSOFT; "Microsoft OLE Today and Tomorrow: Technology Overview"; pub. 12/93; 9 pages; pp. 1-9.	
CP	022	PRITSCHOW et al.; "Open System Controllers - A Challenge for the Future of the Machine Tool Industry"; pub 1/14/93; CIRP; 4 pages; pp. 449-452.	
CP	023	WEB 3.0 Product Brochure; Trihedral Engineering Ltd.; pub. 1994; 6 pages.	
CP	024	CHEN et al.; "Computer Numerical Control: Essentials in Programming and Networking"; pub. 1994; Delmar Publishers, Inc.; 28 pages; Part 5, Chapter 27; pp. 824-848.	
CP	025	CHU et al.; "Development of a Practical SFC System for CNC Machine Shop"; pub. 1994; 5 pages; 362-367.	
CP	026	MICROSOFT; "The Microsoft Object Technology Strategy"; pub. 3/94; 33 pages; pp. 1-33.	
CP	027	MICROSOFT; "Open Systems: Technology Leadership and Collaboration"; pub. 3/94; 15 pages; pp. 1-15.	

Examiner Signature

Chen, G. L.

Date Considered

3-22-03

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Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
<i>Ch</i>	028	WILLIAM F. FORD; "What is an Open Architecture Robot Controller?"; pub. 8/16/94; IEEE Control Systems Society; 6 pages; pp. 27-32.	
<i>Ch</i>	029	"Requirements of Open, Modular Architecture Controllers for Applications in the Automotive Industry"; pub. 12/13/94; Version 1.1; 13 pages; pp. 1-13.	
<i>Ch</i>	030	FEDROWITZ; "IRL-Based Expansion of the Commonly Used High-Level Language for Robot Programming"; pub. 10/95; 5 pages.	
<i>Ch</i>	031	JOHN JACKMAN; "Robotic Control Using Sequential Function Charts"; pub. 1996; SPIE; 9 pages; pp. 120-128.	
<i>Ch</i>	032	MCGRAW et al.; "A Friendly Command, Control, and Information System for Astronomy"; pub. 1996; ASP Conference Series; 12 pages; pp. 356-367.	
<i>Ch</i>	033	PROCTOR et al.; "Validation of Standard Interfaces for Machine Control"; pub. 1996; 6 pages; pp. 659-664.	
<i>Ch</i>	034	SPERLING et al.; "Enabling Open Control Systems - An Introduction to the OSACA System Platform"; pub. 5/96; 8 pages; pp. 1-8.	
<i>Ch</i>	035	"NEMI Low Cost Controller Project"; pub. 12/96; NEMI; 392 pages; pp. 1-392.	
<i>Ch</i>	036	"Technologies Enabling Agile Manufacturing (TEAM) Intelligent Closed Loop Processing"; pub. 1/11/96; 30 pages; pp. 1-30.	
<i>Ch</i>	037	"Open, Modular Architecture Controls at GM Powertrain - Technology and Implementation"; pub. 5/14/96; Version 1.0; GM Powertrain Group Manufacturing Engineering Controls Council; 39 pages; pp. 1-39.	
<i>Ch</i>	038	MARCOS et al.; "A New Solution for Integrating Control Devices Involved in Computer Integrated Manufacturing"; pub. 9/2/96; IEE; 6 pages; pp. 485-490.	

Examiner Signature	<i>Ch</i> <i>E. G.</i>	Date Considered	3-20-03
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PTO/SB/086 (01-01)

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Sheet

6 of 7

Complete If Known

Application Number	09/633,532
Filing Date	August 7, 2000
First Named Inventor	Brown, et al.
Group Art Unit	2174-2762
Examiner Name	Charles
Attorney Docket Number	ROYG-1-1001

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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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GP	039	PROCTOR et al.; "Open-Architecture Controllers"; pub. 6/97; IEEE; 5 pages; pp. 60-64.	
GP	040	SZABO et al.; "Validation Results of Specifications for Motion Control Interoperability"; pub. 9/97; 11 pages; pp. 166-176.	
GP	041	FENG et al.; "Distributed Control of a Multiple Tethered Mobile Robot System for Highway Maintenance and Construction"; pub. 11/97; 10 pages; pp. 383-392.	
GP	042	LUTZ et al.; "OSACA - The Vendor Neutral Control Architecture"; pub. 12/97; 10 pages.	
GP	043	SPERLING et al.; "Designing Applications for an OSACA Control"; pub. 11/16/97; 5 pages.	
GP	044	CHANG et al.; "Development and Implementation of An Application of an Application Programming Interface for PC/DSP Based Motion Control System"; Pub. 1998; 12 pages; p. 94-105.	
GP	045	MORALES et al.; "A Generalised Software Control System for Industrial Robots"; pub. 1998; AMC; 6 pages; pp. 411-416.	
GP	046	MUIR et al.; "A Three-Layer Workcell Control Architecture Design"; pub. 5/98; IEEE; 7 pages; pp. 1185-1191.	
GP	047	MUIR et al.; "Mechatronic Objects for Real-Time Control Software Development"; pub. 11/98; SPIE; 15 pages; pp. 251-265.	
GP	048	LEU et al.; "A Telemanufacturing Workcell Over the Internet"; pub. 11/98; SPIE; 8 pages; pp. 230-237.	
GP	049	MICHALOSKI et al.; "A Framework for Component-Based CNC Machines"; pub. 11/98; SPIE; 12 pages; pp. 132-143.	

Examiner
Signature

Charles, G. L.

Date
Considered

3-20-03

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PTO/98/08B (10-01)

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet 7 of 7

Complete Unknown

Application Number	109/633,633
Filing Date	AUGUST 25, 2000
First Named Inventor	Browne et al.
Group Art Unit	2134 2702
Examiner Name	Chavis
Attorney Docket Number	ROYG-1-1001

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue numbers, publisher, city and/or country where published	T2
Chavis	050	EMILIO MORALES; "GENERIS: The EC-JRC Generalised Software Control System for Industrial Robots"; pub. 1998; University Press; Volume 26; 7 pages; pp. 26-33.	
Chavis	051	MIZUKAWA et al.; "De-Facto Standard API for Open and Networked Industrial Robots"; pub. 10/99; 8 pages; pp. 455-462.	
Chavis	052	CHO et al.; "A Compact/Open Network-Based Controller Incorporating Modular Software Architecture for a Humanoid Robot"; pub. 4/19/99; Kluwer; 15 pages; pp. 341-355.	
Chavis	053	NILSSON et al.; "Integrated Architecture for Industrial Robot Programming and Control"; pub. 5/20/99; Elsevier Science B.V.; 22 pages; pp. 205-226.	
Chavis	054	VALERA et al.; "Interactive On-Line Evaluation of Robot Motion Control"; pub. 8/2/99; IEEE; 5 pages; pp. 1039-1043.	RECEIVED SEP 1 2002 Technology Center 2100
Chavis	055	NATALE et al.; "Robust Hybrid Force / Position Control with Experiments on an Industrial Robot"; pub. 9/19/99; 5 pages; pp. 956-961.	
Chavis	056	MIZUKAWA et al.; "ORiN: Open Robot Interface for the Network, A Proposed Standard"; pub. 5/00; MCB University Press; 7 pages; pp. 344-350.	
Chavis	057	EROL et al.; "Open System Architecture Modular Tool Kit for Motion and Machine Processing Control"; pub. 9/00; IEEE/ASME; 11 pages; pp. 281-291.	
Chavis	058	GE et al.; "A One-Stop Solution in Robotic Control System Design"; pub. 9/00; IEEE; 14 pages; pp. 42-55.	

Examiner Signature	Chavis, G. P.	Date Considered	3-29-03
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